

Instructions to Recreate the Dissipation of Stop-and-Go Waves Graphs Using MATLAB

1. If you do not have MATLAB installed, download and install MATLAB
 - a. Sign in to your MathWorks account or create a new one
 - i. <https://www.mathworks.com/login?uri=%2Fmwaccount%2F>
 - ii. To access your organization's MATLAB license, use your work or university email
 - b. Download and install MATLAB for your operating system:
 - i. <https://www.mathworks.com/downloads/>
 2. Download the experiment data and files (**Dissipation of Stop-and-Go Waves via Control of Autonomous Vehicles: Experimental Results: Data**):
 - a. [Download Data Files](#)
 3. Unzip the files from your downloads folder
 4. Open MATLAB and navigate to the vehicle_trajectory_data_code folder that was downloaded in the previous step
 5. Open the "code" folder within vehicle_trajectory_data_code folder
 6. In the MATLAB command window, run the following: "synchronize_test_data" and hit enter
 - a. This will save a file 'synchronized_data.mat' with a structure for each experiment conducted
 7. To plot the data, run the following in the MATLAB command window:
"plot_synchronized_data" and hit enter
 - a. This will create all of the figures and tables in the experiment
- A video tutorial is also available [here](#).